

**Part NO: LLR519URUG-B60C**

**Common Cathode 5mm Ultra Red Green Round LED Lamp**

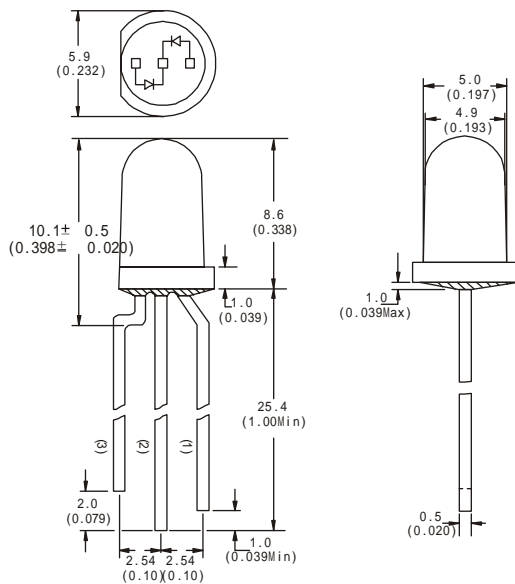
**Features:**

- Bi-color
- High bright output
- Large view angle
- Low power consumption
- High reliability and long life

**Descriptions:**

- Dice material: AlGaInP
- Emitting Color: Red/Green
- Device Outline: 5mm Round Type
- Lens type: White Diffused

**Package Dimensions: LLR519URUG-B60C**



	GREEN	RED ORANGE YELLOW
PIN1	ANODE	
PIN2	CATHODE	CATHODE
PIN3		ANODE

**Notes:**

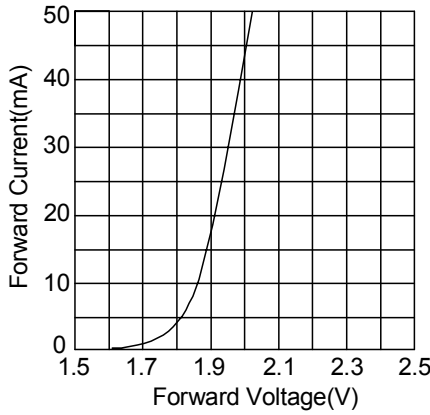
1. All dimension units are millimeters.
2. All dimension tolerance is  $\pm 0.15$ mm unless otherwise noted.

**Selection Guide**

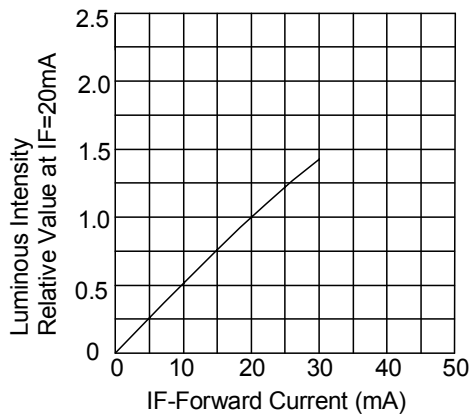
Chip		Lens	Absolute Maximum Ratings				Electro-optical Data(At 20Ma)			Viewing Angle $2\theta_{1/2}$ (deg)
Material/Emitted Color	Peak Wave Length $\lambda_P$ (nm)		(nm)	Pd (mw)	$I_F$ (mA)	Peak (mA)	$V_F$ (V)		$I_v$ (mcd)	
							Typ	Max	Typ	
Ultra Red (AlGaInP)	630	White diffused	17	65	30	150	1.95	2.5	180	60
Ultra Green (AlGaInP)	574		30	75	30	150	2.1	2.5	120	

## Typical Electrical-Optical Characteristics Curves: Ultra Red

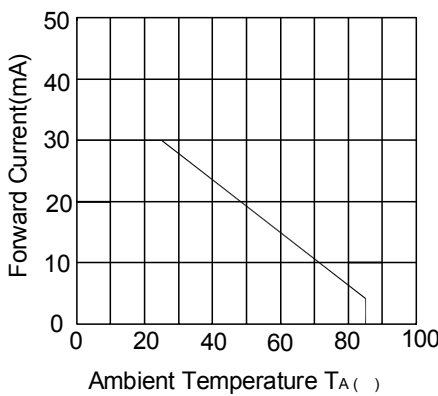
Forward Current Vs Forward Voltage



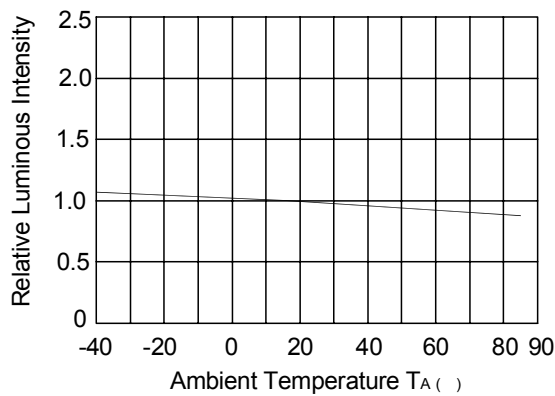
Relative Intensity Vs Forward Current



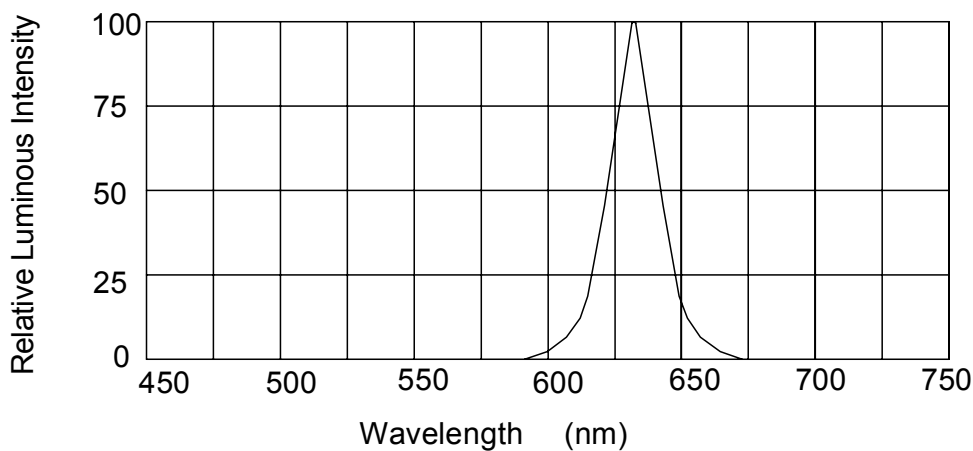
Forward Current Vs Environmental Temp



Relative Intensity Vs Environmental Temp

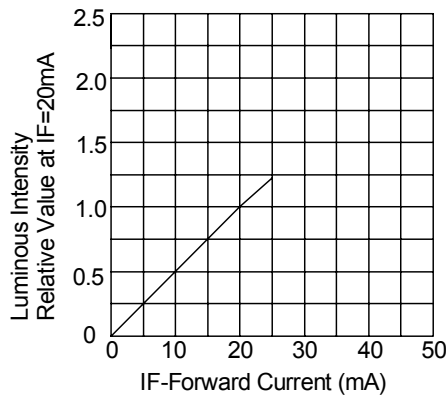
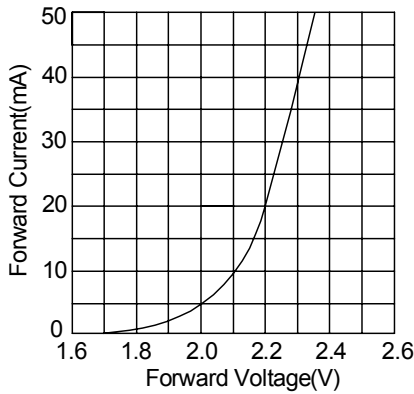


Relative Intensity Vs Wavelength

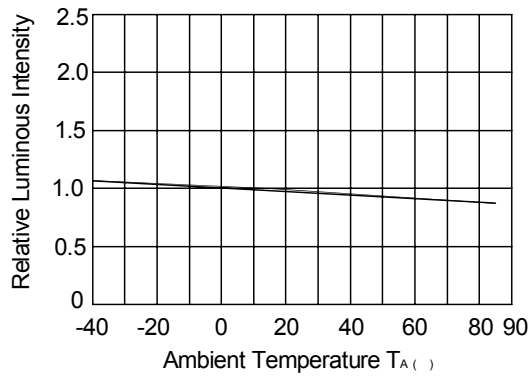
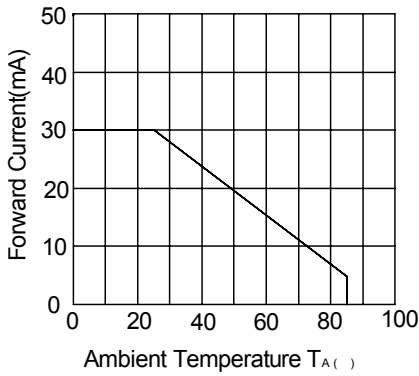


## Typical Electrical-Optical Characteristics Curves: Ultra Green

Forward Current Vs Forward Voltage      Relative Intensity Vs Forward Current



Forward Current Vs Environmental Temp      Relative Intensity Vs Environmental Temp



Relative Intensity Vs Wavelength

